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1 [Audio watermark attacks: from single to profile attacks](#)  
[Andreas Lang, Jana Dittmann, Ryan Spring, Claus Vielhauer](#)  
 August 2005 MM&Sec '05: Proceedings of the 7th workshop on Multimedia  
 Publisher: ACM

Full text available: [Pdf \(224.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [referter terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 86, Citation

A wide range of watermarking evaluation approaches and especially image suites have been described in the literature. Our paper sets the main focus on evaluation of digital audio watermarking with StirMark Benchmark for A

Keywords: attack, audio, digital watermarking, smba, stirmark

2 [Informed detection of audio watermark for resolving playback speed](#)  
[Sylvain Beaugé, Michiel van der Veen, Aweke Lemma](#)  
 September 2004 MM&Sec '04: Proceedings of the 2004 workshop on Multimed  
 Publisher: ACM

Full text available: [Pdf \(388.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [referter terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 42, Citation

In this paper, we present a method for informed watermark detection in this context, informed detection refers to the mechanism in which the original signal is used to improve robustness and/or complexity. Here, we focus

Keywords: audio, fingerprinting, informed detector, music distribution,

3 [Nearly Lossless Audio Watermark Embedding Techniques to be Extended Contactlessly by Cell Phone](#)  
[Toshio Mudegi](#)  
 May 2006 MDM '06: Proceedings of the 7th International Conference on Mobile Data Management (MDM'06) - Volume 00 , Volume 00

Publisher: IEEE Computer Society

Full text available: [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [index](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

We have proposed a novel audio watermarking technique, which embed bitstream data by changing two-channel stereo locations of lower frequency in an embedding target audio signal. This method features nearly lossless robustness ...

#### 4 Statistical audio watermarking algorithm based on perceptual analysis

 Xiaomei Quan, Hongbin Zhang

November 2005 DRM '05: Proceedings of the 5th ACM workshop on Digital management

Publisher: ACM

Full text available:  Pdf (261.76 KB) Additional Information: [full citation](#), [abstract](#), [referers](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 71, Citation

In this paper, we describe a novel statistical audio watermarking scheme. By controlling of the masking thresholds, watermark is embedded adaptively and robustly in the perceptually significant portions in wavelet packet domain by a statistical method ...

Keywords: audio watermarking, psychoacoustic model, wavelet packet

#### 5 Improved watermark detection for spread-spectrum based watermarking using independent component analysis

 Hafiz Malik, Ashfaq Khokhar, Rashid Ansari

November 2005 DRM '05: Proceedings of the 5th ACM workshop on Digital management

Publisher: ACM

Full text available:  Pdf (434.70 KB) Additional Information: [full citation](#), [abstract](#), [referers](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 93, Citation

This paper presents an efficient blind watermark detection/decoding scheme for spread spectrum (SS) based watermarking, exploiting the fact that in SS-based watermarking schemes the embedded watermark and the host signal are mutually independent and obey ...

Keywords: blind source separation, correlation, detection, independent component analysis, spread spectrum, watermarking

#### 6 Digital watermarking security considerations

 Rade Petrovic, Babak Tehranchi, Joseph M. Winograd

September 2006 MM&Sec '06: Proceedings of the 8th workshop on Multimedia and Security

Publisher: ACM

Full text available:  Pdf (253.62 KB) Additional Information: [full citation](#), [abstract](#), [referers](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 160, Citation

In this paper, we review our past experience with security of copy control watermarking, particularly related to SDMI. We also classify and analyze the existing literature and propose a number of security enhancement techniques for copy control ...

Keywords: SDMI, copy control, digital rights management, digital watermarking

## watermark attacks

## 7 Estimation of recording location using audio watermarking

 Yuji Nakashima, Ryuki Tachibana, Masafumi Nishimura, Noboru Babaguchi  
September 2006 MM&Sec '06: Proceedings of the 8th workshop on Multimedia and Security  
Publisher: ACM

Full text available:  Pdf (209.98 KB) Additional Information: [full citation](#), [abstract](#), [referers](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 41, Citation (0)

In this paper, we propose a novel application of audio watermarking, estimation of recording location. The purpose of the paper is to determine the seat location at which a bootleg recording was made by using a digital video camera.

Keywords: bootleg, digital audio watermarking, estimation, recording location

## 8 PlataJanus: an audio annotation watermarking framework

 Jana Dittmann, Martin Steinebach  
October 2001 MM&Sec '01: Proceedings of the 2001 workshop on Multimedia and Security: new challenges  
Publisher: ACM

Full text available:  Pdf (545.27 KB) Additional Information: [full citation](#), [abstract](#), [referers](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 22, Citation (0)

The focus of audio watermarking research in recent years have been content and copy control mechanisms. Therefore the robustness and security of watermarks have been the most frequently discussed parameters. Transm...

Keywords: annotation, audio watermarking, business models, framework

## 9 Digital audio watermarking based-on multiple-bit hopping and human auditory system

 Changsheng Xu, Yongwei Zhu, David Dagan Feng  
October 2001 MULTIMEDIA '01: Proceedings of the ninth ACM international conference on Multimedia  
Publisher: ACM

Full text available:  Pdf (613.16 KB) Additional Information: [full citation](#), [abstract](#), [referers](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 58, Citation (0)

A novel content-adaptive audio watermarking technique is proposed. To balance in-audibility and robustness when embedding and extracting watermark, the embedding scheme is highly related to audio content by making use of the human ...

Keywords: audio, digital watermarking, human auditory system

## 10 A novel watermarking method based on Fibonacci numbers

 Jiancheng Zou, Dongxu Qi, Rabab K. Ward

June 2006 VRCA '06: Proceedings of the 2006 ACM international conference on reality continuum and its applications  
Publisher: ACM  
Full text available:  Pdf (125.56 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)  
Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 40, Citation (

A digital image scrambling method based on the Fibonacci numbers is proposed [J. et al. 2004]. A novel audio watermarking method based on Fibonacci numbers is proposed in this paper. The experiment results show that the algorithm has better performance than the existing methods.

**Keywords:** fibonacci numbers, watermarking

**11 Why watermark?: the copyright need for an engineering solution**

 Michael Seadle, J. R. Deller, Jr., Aparna Gurijala  
July 2002 JCDL '02: Proceedings of the 2nd ACM/IEEE-CS joint conference on digital libraries  
Publisher: ACM  
Full text available:  Pdf (142.88 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)  
Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 35, Citation (

An important research component in the creation of the National Gallery of Art's National Gallery of Art Watermark (NGSW) is the development of watermarking technologies for the protection of digital images. In this paper we argue that audio watermarking is a particularly desirable

**Keywords:** DMCA, copyright, watermarking

**12 Wavelet-based blind watermarking of 3D models**

 F. Uccheddu, M. Corsini, M. Barni  
September 2004 MM&Sec '04: Proceedings of the 2004 workshop on Multimed. Secur.  
Publisher: ACM  
Full text available:  Pdf (462.47 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)  
Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 147, Citation (

Watermarking of 3D meshes has received a limited attention due to the difficulties encountered in extending the algorithms developed for 1D (audio) and 2D (image) signals to topological complex objects such as meshes. Other difficulties are the need to handle the

**Keywords:** 3D watermarking, 3D wavelets, blind detection, copyright protection, watermarking

**13 Light weight MP3 watermarking method for mobile terminals**

 Koichi Takegi, Shigeyuki Sakazawa  
November 2005 MULTIMEDIA '05: Proceedings of the 13th annual ACM international conference on Multimedia  
Publisher: ACM  
Full text available:  Pdf (117.39 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)  
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 53, Citation (

This paper proposes an MP3 watermarking method that is applicable to with limited computational resources. Considering that the embedded ir copyright information and metadata, which should be extracted before p

**Keywords:** MP3, mobile terminal, scalefactor, watermarking

14 [Proxy-based task partitioning of watermarking algorithms for reducing power consumption in mobile devices](#)

 Arun Kejariwal, Sumit Gupta, Alexandru Nicolau, Nikil Dutt, Rajesh Gupta  
June 2004 DAC '04: Proceedings of the 41st annual conference on Design automation  
Publisher: ACM

Full text available:  Pdf (494.20 KB) Additional Information: [full citation](#), [abstract](#), [referers](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 69, Citation (

Digital watermarking is a process that embeds an imperceptible signature in a digital file containing audio, image, text or video data. The watermark authenticate the data file and for tamper detection. It is particularly ...

**Keywords:** handhelds, partitioning, proxy, watermarking

15 [Robust DWT-SVD domain image watermarking: embedding data in the singular value decomposition](#)

 Emir Ganic, Ahmet M. Eskicioglu  
September 2004 MM&Sec '04: Proceedings of the 2004 workshop on Multimed

Publisher: ACM

Full text available:  Pdf (4.84 MB) Additional Information: [full citation](#), [abstract](#), [referers](#), [related terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 185, Citation (

Protection of digital multimedia content has become an increasingly important issue for content owners and service providers. As watermarking is identified as a promising technology to achieve copyright protection, the relevant literature includ

**Keywords:** copyright protection, discrete wavelet transform, image watermark, multimedia, singular value decomposition, visual watermark

16 [A multiple watermarking algorithm based on CDMA technique](#)

 Fuhsao Zou, Zhengding Lu, Hefei Ling  
October 2004 MULTIMEDIA '04: Proceedings of the 12th annual ACM international conference on Multimedia

Publisher: ACM

Full text available:  Pdf (235.47 KB) Additional Information: [full citation](#), [abstract](#), [referers](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 53, Citation (

This paper proposes a multiple watermarking algorithm based on code division multiple access (CDMA) technique. Before the watermark embedded, each user is assigned as a seed to generate an address code which is subjected to pseud

**Keywords:** address code, code division multiple access, correlation coe

## watermarking

## 17 An improving model watermarking with iris biometric code

 George Varbanov, Peter Blagoev  
June 2007 CompSystech '07: Proceedings of the 2007 international conference on Computer systems and technologies

Publisher: ACM

Full text available:  Pdf (565.54 KB) Additional Information: [full citation](#), [abstract](#), [referers](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 109, Citation

The Paper justifies need to work with new technology for perfect safety of the human deal (the business). The Problem same important with new technologies in internet, all multimedia author's system, video watch of the system, audio

**Keywords:** biometric system, biometric watermark, iris code, video-watermark with discrete wavelet transformation

## 18 Extraction in software watermarking

 William Zhu, Clark Thomborson  
September 2006 MM&Sec '06: Proceedings of the 8th workshop on Multimedia and Security

Publisher: ACM

Full text available:  Pdf (164.79 KB) Additional Information: [full citation](#), [abstract](#), [referers](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 100, Citation

The widespread use of the Internet makes software piracy and unauthorized use easier and more frequent. Among the many techniques developed for protection of copyrights is software watermarking which embeds secret messages into

**Keywords:** embed, extract, graph, interference graph, security, software watermarking

## 19 Robust content-based MPEG-4 XMT scene structure authentication

 content location

Ziad Sakr, Nicolas D. Georganas

August 2007 Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP) , Volume 3 Issue 3

Publisher: ACM

Full text available:  Pdf (594.67 KB) Additional Information: [full citation](#), [abstract](#), [referers](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 116, Citation

For the past decade, there have been numerous research works focusing on the protection of digital images, audio, video, 3D virtual scenes, and software from unauthorized use and distribution. With the emerging technology of the standard, ...

**Keywords:** MPEG-4, Multimedia, VRML, XML, XMT, polynomial, pseudo sequences, steganography, watermarking

## 20 HOTPAPER: multimedia interaction with paper using mobile phones

 Berna Erol, Emilio Antúnez, Jonathan J. Hull  
October 2008 MM '08: Proceeding of the 16th ACM international conference  
Publisher: ACM  
Full text available:  Pdf (2.23 MB) Additional Information: [full citation](#), [abstract](#), [referer](#)  
Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 70, Citation

The popularity of camera phones enables many exciting multimedia app paper, we present a novel technology and several applications that allow with paper documents, books, and magazines. This interaction is in the

**Keywords:** linking paper to electronic data, markerless linking, mobile interaction

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